LOTUS®
because life is precious
A Brand of **TI MEDICAL**

TI MEDICAL
Engineering the Future of Healthcare

übersonic SYNERGY

Fully Integrated Bipolar and Ultrasonic Technology in a Single Multi-Function Device

Generator

1. HF socket
2. Ultrasonic socket

The HF & Ultrasonic Surgical System is designed based on an ultrasonic energy platform to function as a multifunctional instrument in laparoscopic surgery. Compared with the traditional Ultrasonic Surgical System, it operates using a combination of high-frequency (HF) and ultrasonic energy

The HF & ultrasonic system uses bipolar energy, which is reliable, safe and effective to coagulate larger blood vessels.

Transducer

Plug directly into Ubersonic SYNERGY System

High-frequency handpiece

The Ubersonic SYNERGY handpiece is a multifunctional instrument designed to increase surgical efficiency via the HF and Ultrasonic Surgical System, with access to surgical synergy including bipolar and ultrasonic energy.

Integrated Bipolar and Ultrasonic Energy from a Single Versatile Instrument

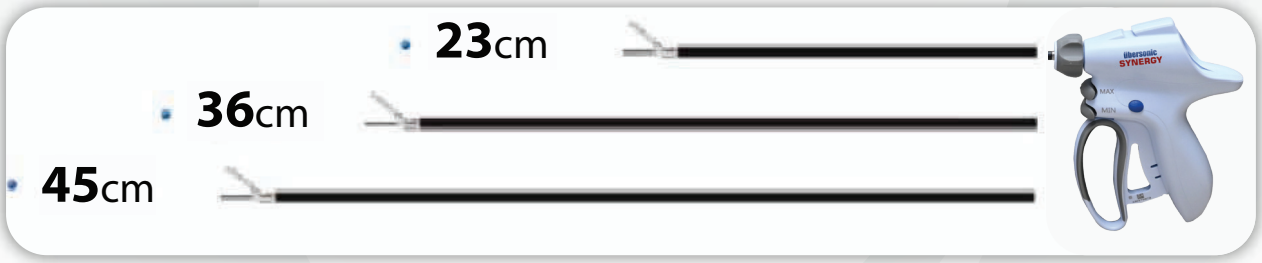
Ubersonic SYNERGY

Ubersonic SYNERGY delivers advanced bipolar and ultrasonic energy simultaneously from a single, versatile instrument. This integration delivers the widely recognized benefits of each individual energy: the ability to rapidly cut tissue with ultrasonic energy and the ability to create reliable vessel seals with bipolar energy. Ubersonic SYNERGY features instruments with three working lengths to meet surgical needs in a wide variety of procedures.

The benefits of both advanced bipolar and ultrasonic energies to provide unprecedented versatility:

- Reliable 7 mm vessel sealing
- Minimal thermal spread
- Fastest in-class cutting
- Reduced mist generation for improved visibility
- Fewer instrument exchanges

Ubersonic SYNERGY Instruments Maximum Vessel Sealing Diameter 7 mm



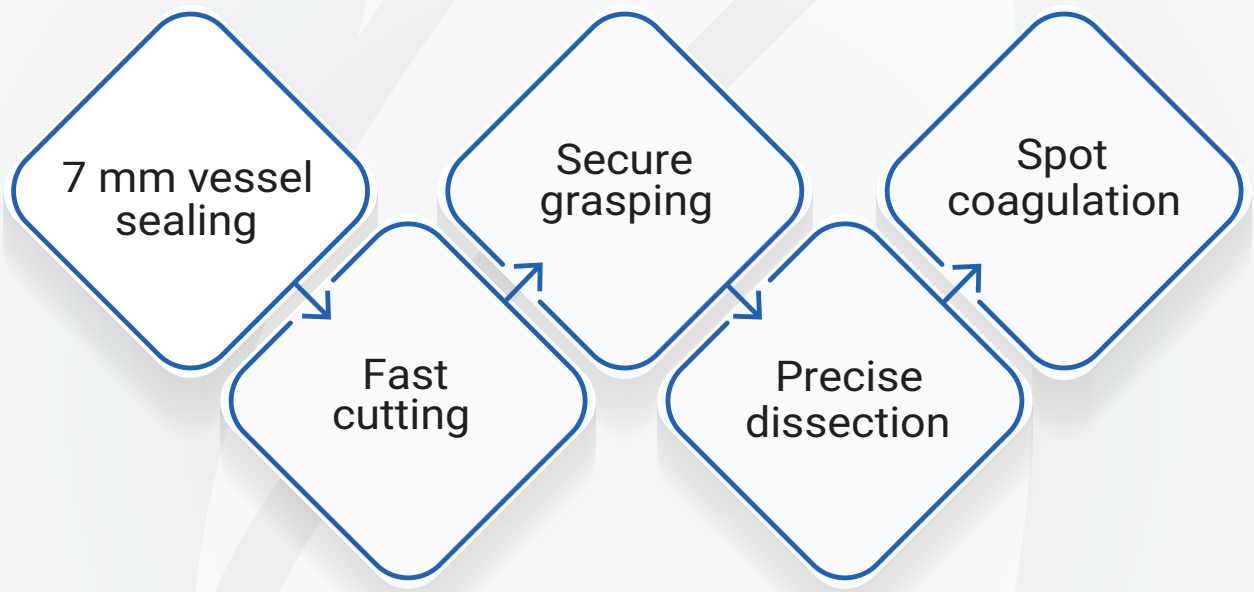
Intuitive, Easily Accessible Hand Switches

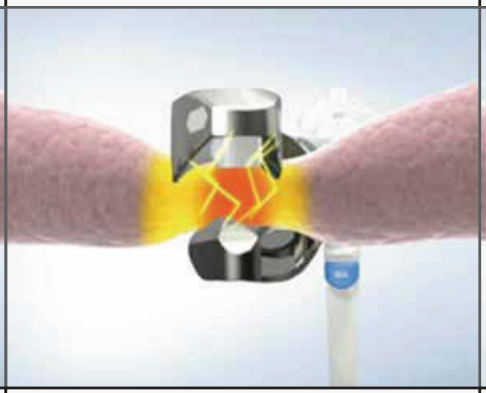
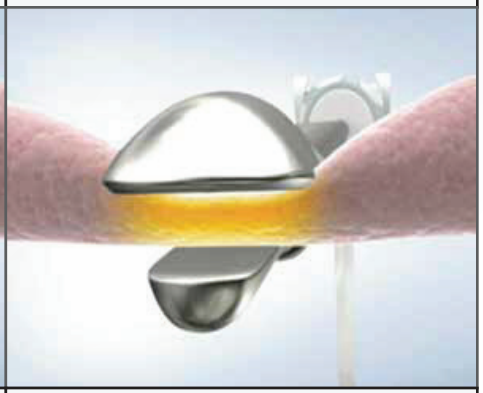
Intuitive hand switches are easily accessible from various directions, allowing for stable activation regardless of hand size or position. The ergonomically placed blue button activates exclusive bipolar energy.

Advanced Bipolar and Ultrasonic Energy Integrated in a Single Multi-funtion Device

India's first integrated bipolar and ultrasonic energy device, Ubersonic SYNERGY delivers both consistently superior vessel sealing and rapid precise tissue cutting capability in a single versatile instrument.

Five advantages of Ubersonic SYNERGY



Ultrasonic Energy	**Ubersonic SYNERGY**	Bipolar Energy
		
Rapid Tissue Cutting	Rapid Tissue Cutting and Reliable Vessel Sealing	Reliable Vessel Sealing

Ubersonic SYNERGY - APPLICATIONS

1. Colorectal

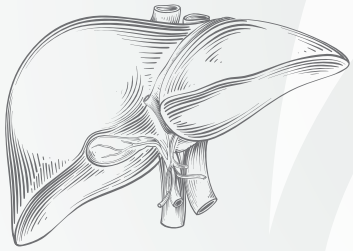
Dissection of the Mesocolon and Ligation of Major Vessels

The fine-tip design of Ubersonic SYNERGY allows for a layer- specific and delicate dissection of the mesocolon. This leads to improved visibility on anatomic planes, which is particularly crucial during a Total Mesorectal Excision (TME) in order to ensure highly accurate dissection to protect important nerves.

Mobilization of the Colon and Flexures

Ubersonic SYNERGY allows ultraprecise. layer-specific dissection close to the colon, reducing the risk of damaging nearby organs at the flexures. The concept of hybrid technology enables a fast and safe mobilization, which leads to a more streamlined operation and, therefore, potential time savings.

2. Liver



Parenchymal Transection

The HF & Ultrasonic Surgical System is designed based on an ultrasonic energy platform to achieve the goal of being used as a multifunctional instrument in laparoscopic surgery. With the additional option to pre-seal and apply secondary hemostasis with Ubersonic SYNERGY, a potential and likely reduction of blood loss could be achieved.

Dissection of Major Vessels

The fine, slim-tip design allows a delicate dissection in the hepatoduodenal ligament and parenchyma. This ultraprecise dissection enables the surgeons to expose and isolate the major vessels most precisely, reducing the risk of damaging important structures.

3. Bariatrics

Gastric Sleeve Procedure

The superior hemostasis of Ubersonic SYNERGY provides an exceptionally fast mobilization of the stomach while taking down the small but multiple gastroepiploic vessels along the greater curvature safely. While the advanced bipolar component provides a safe and reliable sealing of the short gastric vessels.

4. Thyroid

Ligation of Thyroid Vessels

The unrivaled combination of ultrasonic and advanced bipolar energy of Ubersonic SYNERGY allows precise division and reliable ligation of all thyroid arteries and veins, resulting in fast, blood-dry mobilization of the gland.

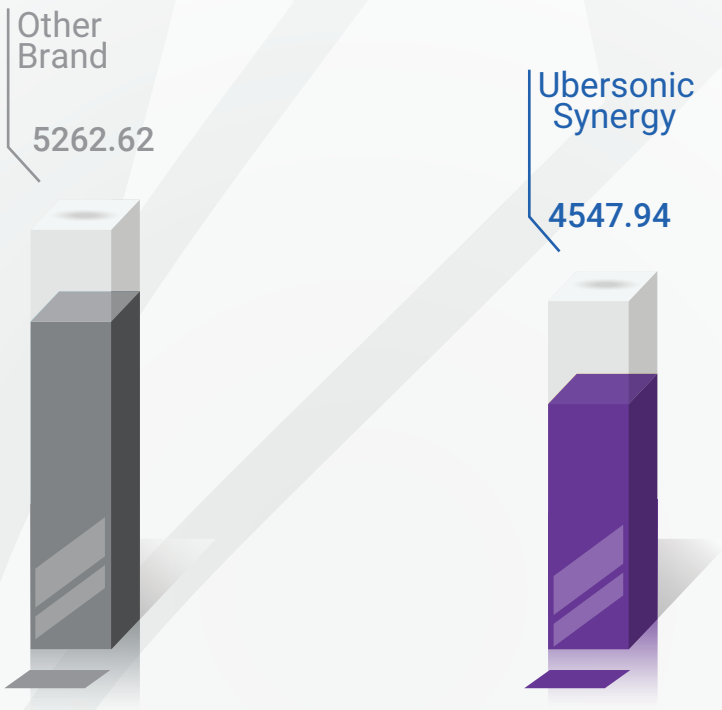
Exposure of Nerves and Separation of Thyroid Gland from Trachea

The fine, slim-tip design allows precise and careful dissection of the pretracheal adhesion from the trachea. The fact that no other instruments are required, combined with the improved visibility, can lead to a more streamlined operation and therefore potential time savings.

Lateral Thermal damage

Heat Damage of Liver Tissue

- Animal Test
- Chronic Test



Product code	Description
LUSY-GEN	Lotus Ubersonic Synergy Generator
LUSY-FSW	Lotus Ubersonic Synergy Foot Switch
LUSYTD-55LS	Lotus Ubersonic Synergy Transducer 55
LUSY-36-LS	Lotus Ubersonic Synergy - 36 Lap Shears
LUSY-45-LS	Lotus Ubersonic Synergy - 45 Lap Shears
LUSY-23S	Lotus Ubersonic Synergy - 23 General Surgery Shears

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